

# ***FINDAFACT 2510***

## **DATA RETRIEVAL SYSTEM**

Designed to operate in conjunction with punch card equipment found in most tab installations, the Findafact 2510 employs two standard magnetic tape stations, such as the IBM 727 or Potter 906.

Basic system components are contained in two units; the Operating Console/Control Panel, and the Flanker, Card Buffer, Comparator and Tape Buffer, all housed in the main frame.

### **OPERATING CONSOLE**

For full control and ease of operation, the Console contains a full complement of switches and indicators required to start, stop, monitor and control the execution of Findafact 2510 functions. Lighted indicators and pushbuttons clearly indicate the operating status of the system and call the operator's attention to any condition that has stopped the operation, such as parity error, card read stacker full or magnetic tape at end of reel. Operating modes are quickly selected, and contradictory instructions are prevented by built-in switch interlocks.

### **CONTROL PANEL**

Located in the Console unit, the Control Panel is a standard unit, easily accessible through a hinged door. It is wired in the normal manner, and directs the system in the performance of its various operations. Basic functions of the Control Panel are general format control and, in conjunction with the Operating Console, selection of operating mode. Panels are easily interchangeable, so that standard programs can be wired and held available for use when required.

### **FLANKER**

In the Findafact 2510 system, the Flanker performs the input-output operation between card readers and punches, and the Card Buffer. It converts the 80 parallel column data format of punch card language to the serial by character format of magnetic tape. In addition, the Flanker checks to insure that invalid codes are not read from the card reader or punched by the card punch.

### **CARD BUFFER**

This is a magnetic core memory capable of storing the data from a punch card in two forms, one required for searching the tape and the other required for punching an output card. It is loaded and, in general, unloaded via the flanker. The Card Buffer has two additional functions; first, as one input to the comparator, and second, to transfer characters through the Tape Buffer to magnetic tape.

### **TAPE BUFFER**

The Tape Buffer is another magnetic core memory, capable of storing two complete tape blocks, each block consisting of twelve 80 column records. In the searching function, the Tape Buffer will accept magnetic tape input. In file maintenance, it also delivers data to the magnetic tape output. In searching and processing it is the second input to the comparator. In addition, during the Data Retrieval mode of operation, the Tape Buffer delivers information to the Card Buffer to be conveyed to the punch card reproducer.

### **COMPARATOR**

In data retrieval and tape file maintenance, the Comparator makes a digit by digit comparison of data passing through the Tape Buffer and Card Buffer. The position of the digit pairs which contribute to the search argument are specified on the control panel. The Comparator then indicates that the search argument of a given tape record is equal to, greater than or less than the input card search argument.

### **AUXILIARY EQUIPMENT**

Although Findafact 2510 operates with most standard punch card or EDP installations, the IBM equipment at right illustrates a typical system.

**PUNCH CARD READER** Used to specify the search argument, the punch card reader provides the information necessary for Findafact 2510 to update or generate the magnetic tape file, or to assist in the generation of output punch cards.

**PUNCH CARD REPRODUCER** The card reproducer punches output cards indicating data retrieved from the tape file, data sought but not found in the tape file, or data deleted from the tape file.

**MAGNETIC TAPE STATIONS** One tape station is normally required for generating a magnetic tape file from a punch card file. In data retrieval, two stations may be used as inputs, with automatic switching from one to the other upon completion of a reel. In file maintenance, two stations are used simultaneously; one for the original file, the other for the new file being generated.

**CARD KEYPUNCH** Used when low speed output is acceptable, the card key punch allows manual intervention to recover information following a stop for any reason. This permits the system to start up immediately after the intervention. In a re-block and sequence check, the keypunch provides indication that a sequence break has been detected.

## ECONOMY

The Findafact 2510 system provides high speed, electronic data processing at low costs. Expensive computer time, for searching and maintaining magnetic tape files, is eliminated. Where large punch card files are maintained, the Findafact 2510 economically solves the low density look-up problem.

## SPEED

High speed is the Findafact 2510's primary advantage over punch card tab equipment. Data retrieval, maintenance and up-dating of magnetic tape files is handled at rates to 30,000 records per minute. Speed and accuracy are major advantages over manual handling of large files.

## EASE OF USE

The simple and straightforward control panel wiring procedure and uncomplicated operating console permit regular personnel to operate the system with less than a day's training. No procedures feasibility studies are required.

## COMPATIBILITY

The Findafact 2510's versatile systems design permits its use with all major tab or EDP equipment including the card readers, punches, printers and magnetic tape equipment found in most installations.

Since the magnetic tapes generated by the Findafact 2510 are compatible with the IBM 1401 System, necessary computations can be performed quickly by one of the many Service Bureaus where EDP equipment is available. Magnetic tapes resulting from computational runs can be used in the Findafact 2510 system for further retrieval and maintenance activity.

## CAPACITY

The 24 80-digit record capacity of the Findafact 2510's tape buffer permits high speed magnetic tape data rates by accommodating large block lengths.

## MODULAR CONSTRUCTION

Carefully considered mechanical design makes possible an unlimited number of arrangements, to suit available floor space and equipment setups.

## INSTALLATION

Installation of the Findafact 2510 is quick and simple, with no special requirements. 110 volt AC power is used, no sub-flooring is needed, and, since less than 1.5 kilowatts is dissipated, no special air conditioning is necessary.

## SERVICE

The solid state reliability of the Findafact 2510 system, and the availability of around the clock service from the RCA Service Company, assure long term, error-free operation, with a minimum of machine down-time. RCA Service offices are located in all major cities.







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engineering, inc. A and Courtland Streets, Philadelphia 20, Pa. / GLadstone 5-9000

September 29, 1965

Mr. Theodor H. Nelson  
Instructor in Sociology  
Department of Economics, Sociology & Anthropology  
Poughkeepsie, New York

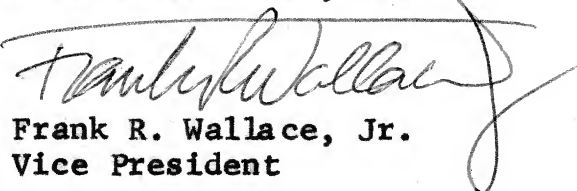
Dear Mr. Nelson:

Enclosed you will find the only literature we have on the Findafact 2510 Data Retrieval System.

You should note that this system has been obsolete for approximately three years, the last system having been sold to General Electric in 1962.

Very truly yours,

RESE ENGINEERING, INC.



Frank R. Wallace, Jr.  
Vice President

FRW:AA  
Enclosure